Application No. 09 7.57 4/4 Prepared by Date 917/04 Week Date 1/60

	-	JACKET	
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	р. PTO-1449
b. Applicant(s)	g. Disclaimer	I. Print Fig.	q. PTOL-85b
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	. Other NOA/NOA/Index

- -	
SPECIFICATION	MESSAGE
a. Page Missing	(1) MO-1449: (5 pages): Please either initial or line through citations, (copy provided for reference).
b. Text Continuity	through citations, (copy provided for reference).
c. Holes through Data	
d. Other Missing Text	(2) Please supply the following:
e. Illegible Text	'
f. Duplicate Text	Essuing classification form
g. Brief Description	Essuing classification form () Todax of claims (, not found in IFW system
h. Sequence Listing	Notice of MINOWENCE
i. Appendix	Notice of Allowability
j. Amendments	, ,
k. Other	
	1//
CLAIMS	- Thumleyau
a. Claim(s) Missing	
b. Improper Dependency	
c. Duplicate Numbers	
d. Incorrect Numbering	initials Offits.
e. Index Disagrees	RESPONSE
f. Punctuation	(1) PTD-1449 (5 pages) are initialed + Signed.
g. Amendments	2)-Notice of allowance + Notice of
h. Bracketing	allowability are in system already.
i. Missing Text	indicated by NOA (09/08/2003)
j. Duplicate Text	- Please check for issing classification
k. Other	from- was already submitted for
	Scanning in IFW. initials 98

						_
QUERY CONTR	OL FOR		SE ONLY			
Application No.	09/	571.414	Prepared by	J. Kobbias	Tracking Number	25863190
Examiner-GAU	Mor	n's- 177	/ Date	1-5-04	Week Date	11-17-03
	7	•	No. of queries	$ (D_{-})$	IFW	<u>.</u>
-						

JACKET											
a. Serial No.	1. Foreign Priority	k. Print Claim(s)	p. PTO-1449								
b. Applicant(s)	g. Disclaimer	I. Print Fig.	q. PTOL-85b								
c. Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract								
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs								
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other								

SPECIFICATION	MESSAGE PER NOA allowed claims are
a. Page Missing	24-28, 30-50 and 5%-83, and index of
b. Text Continuity	Claims indicates claims being renumbered
c. Holes through Data	in same order. Per Ameriment 8-19-03
d. Other Missing Text	claim 25 is canceled not listed as allowed
e. Illegible Text	on NOA claim 29 is new-listed as
f. Duplicate Text	canceled on NDA. Claims 38-50 and
g. Brief Description	56-83 are missing.
h. Sequence Listing	Please verify total claims and
i. Appendix	provide complete set of allowed claims.
j. Amendments	
k. Other	
CLAIMS	
a. Claim(s) Missing	
b. Improper Dependency	
c. Duplicate Numbers	Thank You
d. Incorrect Numbering	initials
e, Index Disagrees	RESPONSE Please note that there is no
f. Punctuation	amendment dared 8/19/03 for Fires
g. Amendments	application. The most recent
h. Bracketing	amendment is dand 6/2/2003
i. Missing Text	which indicates that 25 is allowed,
j. Duplicate Text	dain 29 is canceled and claims
k. Other	38-50 and 56-83 are not missing.
	1

E-5 (Rev. 10/01/02)

The allowed dains on

24-28, 30-50, 56-83 as indicated on the Notice of allowability. Index of Claims

Application No.	Applicant(s)	
09/751,414	MORMAN ET AL.	
Examiner	Art Unit	
Jennifer A Boyd	1771	

√	Rejected
=	Allowed

_	(Through numeral) Cancelled
	Destricted

N	Non-Elected
_	Interference

A	Appeal
o	Objected

Cla	aim				Е	Date	•			Cla	aim				ate					CI	aim			[Date	•			
	_										F										=								-
Final	Original	9/8/03		-						Final	Original	9/8/03				- 1				Final	Original								
Ē	ř	8								這	Ę,	8/8								ίĒ	꽃.								
	0							Ш										Ш			- 1						\perp		
	1										51					\perp					101						\perp	\Box	
	2		Ш	\perp				Ш			52					\perp		Ш			102						\perp	_	
	3										53					\perp		Ш	!!!		103								
	4			\perp							54				_						104		_			_	\dashv	_	
	5			4			_	Ш			55				_						105		_			_	4	_	
	6			_			\Box	Ш			56	=			_			Ш			106					_	\dashv	_	
	7			4			_	Ш			57	=			_	\perp	_	Ш			107		_			_	\dashv	_	
	8	_	\perp	4	_		\dashv	Ш			58	=			_	\perp		Ш			108					_	\dashv	\dashv	
	9	_		4	_		_	Ш			59	=			_	+		Ш			109		-			_	$^{+}$	_	
	10		\vdash	4	_		_	Ш			60	=			_	_		Ш			110	_	₩			-	\dashv	\dashv	_
	11			4			_	Ш			61	=			_	_	_	Ш			111	_	₩			-	\dashv	\dashv	_
	12	<u> </u>	\vdash	4	\dashv	_	\dashv	$\vdash \vdash$			62	=			_	\perp	\perp	\square			112		1		\vdash	\dashv	\dashv	\dashv	
	13	_	\vdash	\dashv	-	-	\dashv	$\vdash \vdash$			63	=			\dashv	+	+	Н.			113		+	_		\dashv	+	\dashv	—
	14	_	\vdash	\dashv			_	$\vdash \vdash$			64	=			\dashv	+	+	\square			114		+	\vdash	\vdash	\dashv	+	\dashv	_
	15	\vdash	$\vdash \vdash$	\dashv	\dashv	_	\dashv	$\vdash \vdash$			65	=			\dashv	+	+	Н			115		+	\vdash	\vdash	\dashv	+	\dashv	_
	16			\dashv	_		_				66	=		-	\dashv	+	-	Н			116	_	+			\dashv	+	\dashv	
	17		\vdash	4	_		_				67	=			\dashv	+	-	H			117		+			\dashv	+	\dashv	—
	18		\vdash	\dashv			-	\vdash			68 69	=				-	-	H			118 119						+	\dashv	
	19 20			+	\dashv		\dashv	Н			70	=		-	\dashv	+	+	H			120		╁			-	\dashv	\dashv	
				+	\dashv		\dashv	Н			71			-	\dashv	+	+				121		╁			-	\dashv	\dashv	
	21 22	\vdash	\vdash	\dashv	-	_	\dashv	\vdash			72	=			-	+	-	H			122		+			+	+	\dashv	_
	23			\dashv	\dashv		-	Н			73	=			-	-		H			123	_	+			\dashv	+	\dashv	—
	24	=	\vdash	\dashv	\dashv		\dashv				74	=			\dashv	+		H			124		+	\vdash		\dashv	+	\dashv	—
	25	=	\vdash	\dashv	\dashv	-	\dashv	Н			75	=		-	\dashv	+		H	-		125		+			\dashv	+	\dashv	—
<u> </u>	26	=	\vdash	\dashv	\dashv	-	\dashv	\vdash			76	=			\dashv	+					126	-	+			\dashv	+	\dashv	—
	27	Ē		+	-		-	H			77	=		-	\dashv	+		H			127		+			\dashv	+	\dashv	_
	28	=	\vdash	\dashv	_		\dashv	Н			78	=			\dashv	+		H			128	_	+			\dashv	+	\dashv	_
	29	┝	\vdash	\dashv	\dashv		\dashv	H			79	=			\dashv	+		\Box			129						+	\dashv	
-	30	=		\dashv	_		\dashv	H			80	=		_	\dashv	+		H			130		+			\dashv	+	\dashv	—
	31	=		┪					_		81	=	.		1						131		T			\dashv	\forall	\dashv	_
	32	=	\vdash	\dashv				H	_		82	=			\dashv	\top					132	_	T			\dashv	\dashv	\dashv	—
	33	╘		┪			\neg	П	_		83	=			_						133						寸	ヿ	_
	34	=		\dashv			\neg	H			84				7	\top					134					1	寸	\dashv	
	35	=		\dashv				П			85				\dashv	\top					135		T			\dashv		\exists	_
	36	=		7	一		-	П			86				寸						136		Τ			\dashv	\dashv	\neg	_
	37	=		寸				П			87				寸						137						丁	╗	
	38	=		T				П			88										138						\Box	\Box	
	39	=			_						89										139						\Box	\Box	_
	40	=									90										140						丁	⇉	_
	41	=		\exists	\neg	\Box	\neg	П			91			\Box	\neg						141						J		
	42	=									92										142								_
	43	=		$ \rfloor $					_		93				\Box						143								
	44	=						Ш			94							Ш			144								
	45	=						Ш			95							Ш			145								
	46	=	\Box	\perp				Ш			96				[146	_	1				ightharpoonup		
	47	=	Ш	\perp				Ш			97				. [Ш			147						\perp	[
	48	=	$\sqcup \!\!\! \perp$	\downarrow	_			Ш			98				_	\perp		\square			148	_	┺			_	\dashv	_	_
	49	=	\sqcup	4	_			Ш			99			_	_	\perp	\perp				149		┺	_	Щ	_	\dashv	_	_
	50	=									100										150		1					\Box	

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF	F COMMERCE	ATTY. DOCKET NO.		SERIAL NO.	oneet c	<u>></u>			
(MODIFIED)		PATENT AND TRADE	MARK OFFICE	KCC-15,84	18 -	09/751,414					
. 115	ST OF	PRIOR ART CITED BY APPLICANT									
OIP		(Use several sheets if necessary)	APPLICANT(S)								
OIL	c. 3	1	Michael Tod MORMAN et al. May								
MAY 21	2003		FILING DATE GROUP								
PER	.6		•	28 Decemb	er 2000	17	710				
TRADE	MAZE	, <u> </u>	DATENT O	I OCUMENTS							
*EXAMINER		DOCUMENT NUMBER	DATE	NAME	CLASS	SUDO: AGG					
INITIAL			UAIL	INAME	CLASS	SUBCLASS	FILING D				
413	AA	3,679,538	07/1972	Druin et al.	-	. —					
473	AB	3,770,537	11/1973	Elton							
973	AC	3,843,761	10/1974	Bierenbaum et al.			·	•			
473	AD	_ 3,844,865	10/1974	Elton et al.				`			
973	AE	3,852,224	12/1974	Bridgeford			_				
973	AF	3,870,593	03/1975	Elton et al.	1	-	-				
SSS	AG	3,932,682	01/1976	Loft et al.	_	-					
203	AH	4,110,392	08/1978	Yamazaki		_					
973	Al	4,187,390	02/1980	Gore	1		_	•			
973	AJ ,	4,257,997	03/1981	Soehngen et al.	1			~ .			
773	AK	4,384,023	05/1983	Okamura et al.							
<i>\\</i>		FOREIG	N PATENT	DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	CHDOLAGO	TRANSLATION				
-		_	DATE	COOKIN	CLASS	SUBCLASS	YES	NO_			
473_	AL	1266806	10/1989	Japan (Abstract)	_	 .					
2/2	AM	7207052	08/1995	Japan (Abstract)			-				
1/2	AN .	9124814	05/1997	Japan (Abstract)							
(2)13	,AO	10249945	09/1998	Japan (Abstract)	-	. —					
J 373	ΑP	11192670	07/1999	Japan (Abstract)			-				
		OTHER PRIOR ART (Inc.	luding Autho	r, Tille, Dale, Pertinent P	eges, Etc.)						
	AR					-					
				· · · · · · · · · · · · · · · · · · ·							
· .	AS			<u> </u>			*				
	AT							: • •			
EXAMINER (up Borne		DATE CONS	SIDERED Y	nau 1	7. 2 ^	000			
*EXAMINER:	Init	ilal If reference considered, whether or not of considered. Include copy of this form with	sitation is in o	conformance with MPEP of the conformance with	809; Draw li	ne through citati	on if not	~ 7			

USCOMM-DC 80-3985

Sheet 2 of 5 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. FORM PTO-1449 SERIAL NO. (MODIFIED) KCC-15,848 09/751,414 LIST OF PRIOR ART CITED BY APPLICANT APPLICANT(S) (Use several sheets if necessary) Michael Tod MORMAN et al. MAY 2 1 2003 GROUP FILING DATE 28 December 2000 **U.S. PATENT DOCUMENTS** CLASS SUBCLASS **DOCUMENT NUMBER** DATE NAME **FILING DATE** *EXAMINER INITIAL IF APPROPRIATE 4,386,129 05/1983 Jacoby 09/1985 ΑĐ 4,539,256 Shipman AÇ 4,707,314 11/1987 Kawahigashi et al. AD 4,815,714 03/1989 Douglas ΑE 4,832,886 05/1989 **Douglas** AF 4,919,992 04/1990 Blundell et al. 4,975,469 12/1990 Jacoby et al. AH 04/1991 Antoon, Jr. et al. 5,008,296 5,173,235 12/1992 Kamei et al. 5,238,636 08/1993 Furukawa et al. 5,271,839 12/1993 Moya et al. FOREIGN PATENT DOCUMENTS **TRANSLATION** DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES NO **EPO** 256 717 02/1988 AM 98/28135 07/1998 PCT AN - 99/33651 07/1999 PCT 07/1999 PCT • 99/33654 00/29199 05/2000 PCT OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AR AS ÀΤ DATE CONSIDERED, **EXAMINER** May 17, 2004

reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not

USCOMM-DC 80-3985

P1005.3/ jms

in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY, DOCKET NO.		SERIAL NO.		
(MODIFIED)		PATENT AND TRADEM	ARK OFFICE	KCC-15,84	KCC-15,848		09/751,414	
LIS	T OF I	PRIOR ART CITED BY APPLICANT	APPLICANT(S)					
(Use several sheets if necessary)				Michael Tod MORMAN et al.				in l
On Talk								
MAY 2 1 2000 1		•	FILING DATE	GROUP 'V' y 'm,				
A STORY			28 December 2000 /77/					
U.S. PATENT DOCUMENTS								
'EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D IF APPROF	
\mathfrak{R}	AA	5,358,678	10/1994	Nakamura et al.				
Sys	AB	5,458,951	10/1995	Kagawa		•		
93	AC	5,498,335	03/1996	Moya				
SM	AD.	5,510,176	04/1996	Nakamura et al.				
ExB	AE	5,648,107	07/1997	Kagawa et al.				-
Sy2	AF	5,800,758	09/1998	Topolkaraev et al.				,
333	AG	5,914,184	06/1999	Morman				
OB.	АН	5,938,874	08/1999	Palomo et al.				
J33	A	5,883,028	03/1999	Morman et al.	·			
<7995_	A.J	5,910,136	06/1999	Hetzler et al.	•	·		
$\mathcal{C}_{\mathcal{D}}$	AK	5,955,187	09/1999	McCormack et al.			<u> </u>	
0	1	FOREIG	N PATENT	DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSU YES	NO NO
973	AL	01/23180	04/2001	PCT			,,,,	
0	AM							,
	AN	·	•			· .		
	AO							
	AP		·		<u> </u>		<u> </u>	
		OTHER PRIOR ART (Inc	duding Autho	or, Title, Date, Pertinent F	Pages, Etc.,)		
	AR	-						
	AŞ		•					
	AT							
EXAMINER DATE CONSIDERED 17,2004								
EXAMINER Initial it reference considered, whether or not ditation is in conformance with MPEP out; Draw line through ditation if not								
In conformance and not considered. Include copy of this form with next communication to applicant. USCOMM-DC 80-3985								

P1005.3/ jms

Sheet 4 of 5 FORM PTO-1449 (MODIFIED) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY, DOCKET NO. SERIAL NO. KCC-15,848 09/751,414 LIST OF PRIOR ART CITED BY APPLICANT APPLICANT(S) (Use several sheets if necessary) Michael Tod MORMAN et al. FILING DATE **GROUP** 28 December 2000 **U.S. PATENT DOCUMENTS** DOCUMENT NUMBER ***EXAMINER** DATE NAME CLASS SUBCLASS FILING DATE INITIAL IF APPROPRIATE 5,968,643 10/1999 Topolkaraev et al. AB 5,993,589 11/1999 Morman AÇ 6,013,151 01/2000 Wu et al. AD 6,015,764 01/2000 McCormack et al. ΑE 6,072,005 06/2000 Kobyl ivker et al. AF 6,096,014 08/2000 Haffner et al. AG 6,111,163 08/2000 McCormack et al. ΑH 6,168,800 01/2001 Dobos et al. 06/2001 6,245,401 Ying et al. 07/2001 6,255,359 Agrawal et al. 6,261,674 07/2001 Branham et al. FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY **CLASS** SUBCLASS YES NO AL AM ΑN AO AΡ OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AR AS ΑT

EXAMINER (John Boyl	D/	ATE CONSIDERED May 17	, 2004
*EXAMINER:	Initial if reference considered, whether or not cita		0 (•

in conformance and not considered. Include copy of this form with next communication to applicant.

USCOMM-DC 80-3985

P1005.3/ jms

KCC-1112

FORM PTO-1449	PTO-1449 U.S. DEPARTMENT OF COMMERCE							
(MODIFIED)	MODIFIED) PATE		ARK OFFICE	OFFICE ATTY. DOCKET NO. KCC-15,848		SERIAL NO.		
			RCC-15,64	09/751/414				
LIST OF PRIOR ART CITED BY APPLICANT				APPLICANT(S)				
(Use several sheets if necessary)				APPLICANT(S) Michael Tod MORMAN et al.				
MAY 2 1 2003 E			FILING DATE 28 December 2000		GROUP ************************************			
								- CALLED
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D	
QB	AA	6,265,059	07/2001	Kono et al.	-		. –	
X13	AB	6,268,048	07/2001	Topolkaraev et al.		_ 	· <u></u>	
$\overline{\mathcal{O}}$	AC							
. •	AD							
	ΑE						•	
	AF							
_	AG							
	AH							
•	2							
***	2							
•	AK	•						
		FOREIG	N PATENT	DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	e e						
	AM			_		*		
	AN							
	AO							
	AP	_	_					
		OTHER PRIOR ART (Inc	luding Autho	r, Tille, Dale, Pertinent F	Pages, Etc.)			
	AR							
	-		-					-
	AS							
	ΑT	<u> </u>	,					· ·
EXAMINER		Jun Bor		DATE CON	SIDERED	May	7,200	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								
USCOMM-DC 80-3985								

P1005.3/ jms

KCC-1112